

6ES5

High-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) 6.3 $\pm$ 10% volts

Current at 6.3 volts. 0.2 amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Grid to plate	0.5 max.	0.5 max.	μf
Grid to cathode, internal shield, and heater.	3.2	3.2	μf
Plate to cathode, internal shield, and heater.	3.2	4	μf

Characteristics, Class A₁ Amplifier:

Plate Voltage 200 volts

Grid Voltage. -1 volt

Amplification Factor. 75

Plate Resistance (Approx.). 8000 ohms

Transconductance. 9000 μmhos

Plate Current 10 ma

Grid Voltage (Approx.) for plate $\mu_a = 100$ -6 volts

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-1/8"

Maximum Seated Length. 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip) . . 1-1/2" $\pm$ 3/32"

Diameter. 0.650" to 0.750"

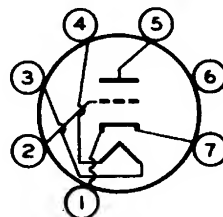
Dimensional Outline See *General Section*

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JEDEC No. E7-1)

Basing Designation for BOTTOM VIEW. 7FP

Pin 1—Cathode
Pin 2—Grid
Pin 3—Heater
Pin 4—Heater



Pin 5—Plate
Pin 6—Internal
Shield
Pin 7—Cathode

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 250 max. volts

GRID VOLTAGE:

Positive-bias value 0 max. volts



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
7-61

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CATHODE CURRENT 22 max. ma

PLATE DISSIPATION 2.2 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . 100 max. volts

Heater positive with respect to cathode . . 100 max. volts

Maximum Circuit Values:

Grid-Circuit Resistance 1 max. megohm

^a With external shield JEDEC No.316 connected to cathode.

